

**INDUCTION HEATING OR MELTING POWER SUPPLY  
UTILIZING A TUNING CAPACITOR**

**Abstract of the Disclosure**

5           A rectifier/inverter power supply for use with induction heating or melting  
apparatus includes a tuning capacitor connected across the output of the rectifier and input  
of the inverter. The tuning capacitor forms a resonant circuit with an inductive load coil  
at the operating frequency of the inverter. Additionally, the load coil may be formed from  
an active load coil connected to the output of the inverter and a passive load coil, in  
10   parallel with a resonant tuning capacitor.